

AWE's Be Facility – a 'photo tour

by

**Clive Le Gresley
Be Plant manager**

Facility remit – what we do

- Manage AWE's Be Stockpile
- Manufacture Be components for Service, Trials and R&D.
- These operations must be conducted safely and in accordance with agreed procedures.

Where do we do it ?

- Building A82. Built in 1960.
- Other buildings – A4 (1952) and A48 (1958).

How do we do it?

- At workstations connected to the building's extract system, because;
- (a) Identified in the 1920s/30s that Be could cause respiratory problems.
- (b) When AWE being built, the decision was made to treat it identically to R/A materials.

What we wear.....



TC1 Lathe



Deckel Mill



Mill Fixturing + HVE



MHP Lathe



Ultrasonic Vapour Degreaser



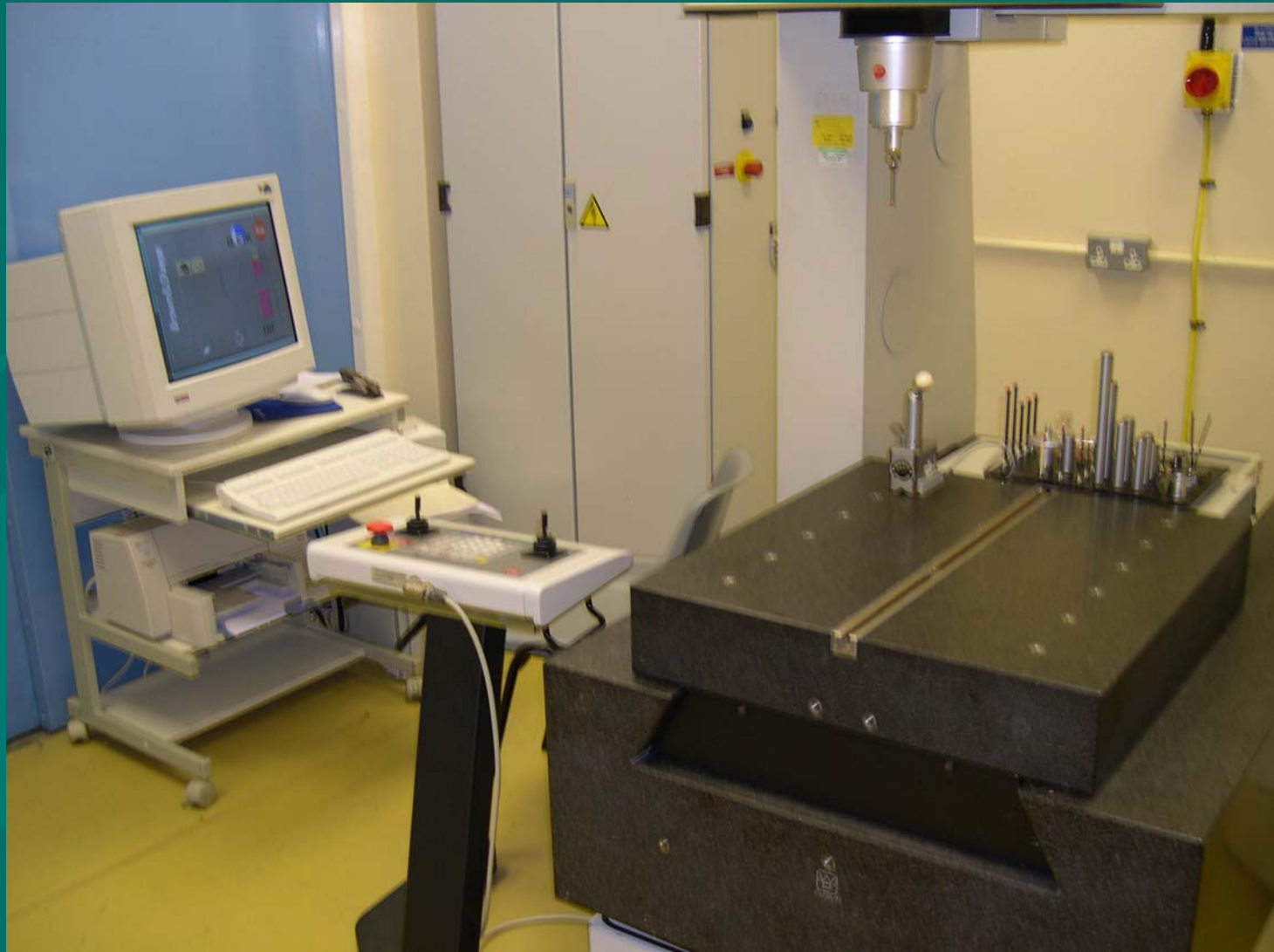
Vacuum Furnace



Mitutoyo CMM



Leitz CMM



Metallography Box



Metallography Area (1)



Metallography Area (2)



Hauser Jig Borer



Material Box – F/C side



Material Box - G/B side



Summary of PAS data

PAS reading - $\mu\text{g m}^{-3}$						
TOTAL	≤ 0.02	≤ 0.1	≤ 0.5	≤ 1.0	≤ 2.0	> 2.0
61505	60800	664	36	3	2	1

Grand total of PAS data, 01/01/97 - 31/03/04

Conclusions

- Primary concern - prevent exposure to airborne Be particulate
- Achieved by processing Be at ventilated workstations & adopting rigorous procedural controls.
- This works – confirmed by PAS/SAS data.
- Since 1978, using this approach and in conjunction with our OH/Medical procedures, there have been no notified cases of CBD.